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09/918,789	07/27/2001	Jayne B. Roderick	IR-026-C1	2194	
21912 75	590 08/23/2004	EXAMINER		INER	
VAN PELT & YI LLP			HANNE, SARA M		
10050 N. FOOTHILL BLVD #200 CUPERTINO, CA 95014			ART UNIT	PAPER NUMBER	
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			DATE MAILED: 08/23/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Application No. Application No. Application Application No. Og/1018/789 JAYNE RODERICK, KAREN MAGLEAN, VERPLANK. Art Unit Sara M Hanne 2179	•	_		AZG				
Examiner Art Unit 2179	3		Application No.	Applicant(s)				
Sara M Hanne	Office Action Summans		09/918,789					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address → Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Edetraces of them they be waited under the provised under the mailing date of this communication (5) \$130, 190, 190, 190, 190, 190, 190, 190, 19		Office Action Summary	Examiner					
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DETAILED ACTION

1. This action is responsive to the amendment received on April 7, 2004. Amended Claims 1-17 are pending in the application.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 3. Claims 1, 5, and 8 -17 rejected under 35 U.S.C. 102(a) as being clearly anticipated by Allport, US Patent Application 2002/0135619.

As in Claims 1, 16 and 17, Allport teaches a pushbutton user interface, method and storage medium for enabling a user to preview the effect of activating a pushbutton comprising a means for sensing input (display activation) to the pushbutton that does not activate the button and in response to sensing input, but determines the nature of the input (determines which input, par. 31) and preview display functionality of the pushbutton (displays a preview of the functionality of the button) and displaying a preview indicating the effect of activating the pushbutton ("a first type of physical motion ... may cause a first event to occur, such as displaying information on the display to describe a function of the button", Pg. 1, par. 5) wherein the preview varies based on a characteristic of the input to the pushbutton (par. 33).

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As in Claim 5, Allport teaches the display to be visual ("quickly see what each button 15 is used for if the user so desires", Pg. 4, par.30).

As in Claim 8, Allport teaches sensing an input that produces activation of the pushbutton (execution activation motion).

As in Claim 9, Allport teaches the preview sensing means to be along an axis different than the activation sensing means ("moving down half-way then down all the way", Pg. 4, par. 32).

As in Claim 10, Allport teaches the preview sensing means to be along an axis different than the activation sensing means ("a first activation requirement could be sliding the button 15 forward towards the display area 25, while the second activation requirement could be pressing down on the button", Pg. 4, par. 32).

As in Claim 11, Allport teaches the preview sensing means to be along an axis orthogonal to the axis along which the activation sensing means senses motion (See Claim 10 rejection, Pg. 4, par. 32).

As in Claim 12, Allport teaches the interface to enable a user to preview the effect of activating any of several pushbuttons by identifying which one an input has been provided for that does not produce an activation but determines the nature of the input and preview display functionality of the pushbutton (determines which input, par. 31) and displaying a preview in response to the sensed input of the identified pushbutton (plurality of buttons, and "the function of each button or button set is displayed when said button or button set is activated using a display activation motion

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... ", Pg. 2, par. 19) wherein the preview varies based on a characteristic of the input to the pushbutton (par. 33).

As in Claim 13, Allport teaches a mechanical input apparatus (Pg. 1, par. 3) for enabling a user to preview the effect of activating a mechanical input apparatus comprising a means for sensing input to the mechanical input apparatus that does not activate the apparatus and in response to sensing input, displaying a preview indicating the effect of activating the mechanical input apparatus (See Claim 1 rejection *supra*).

As in Claim 14, Allport teaches the mechanical input apparatus to be a doorknob ("various types of buttons, such as ... knobs", Pg. 1, par. 3).

As in Claim 15, Allport teaches the mechanical input apparatus to be a switching apparatus ("various types of buttons, such as ... switches", Pg. 1, par. 3).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Allport, US Patent Application 2002/0135619, and further in view of Braun et al., US Patent 6343349.

Allport illustrates a method for button activation prediction and visual preview of button activation by sensing user input. While Allport teaches such a system with

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button sensing and preview activation interface, they fail to show the use of a force sensitive resistor to sense user input as recited in Claim 2. In the same field of the invention, Braun et al. teaches an activation interface similar to that of Allport.

In addition, Braun et al. further teaches the use of a force sensitive resistor as a sensor for motion activation (Column 9, lines 56-61). It would have been obvious to one of ordinary skill in the art, having the teachings of Allport and Braun et al. before him at the time the invention was made, to modify the button sensing and preview activation interface taught by Allport to include the force sensitive resistor of Braun et al., in order to obtain a force sensing method for user input. One would have been motivated to make such a combination because a force responsive apparatus for activating a button's activation preview would have been obtained, as taught by Braun et al.

6. Claims 3-4 and 6-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Allport, US Patent Application 2002/0135619, and further in view of Chang et al., US Patent 6424356.

Allport illustrates a method for button activation prediction and visual preview of button activation by sensing user input.

While Allport teaches such a system with button sensing and preview activation interface, they fail to show the use of potentiometers as recited in Claim 3. In the same field of the invention, Chang et al. teaches an activation interface similar to that of Allport. In addition Chang et al. further teaches the use of potentiometers as sensors for motion activation (Column 5, lines 29-40). It would have been obvious to one of ordinary skill in the art, having the teachings of Allport and Chang et al. before him at

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the time the invention was made, to modify the button sensing and preview activation interface taught by Allport to include the use of a potentiometer of Chang et al., in order to obtain an apparatus capable of sensing user input. One would have been motivated to make such a combination because an apparatus for distinguishing inputs on one button using different levels of resistance would have been obtained, as taught by Chang et al.

While Allport teaches such a system with button sensing and preview activation interface, they fail to show the use of strain gauges as recited in Claim 4. In the same field of the invention, Chang et al. teaches an activation interface similar to that of Allport. In addition Chang et al. further teaches the use of strain gauges as sensors for motion activation (Column 5, lines 29-40). It would have been obvious to one of ordinary skill in the art, having the teachings of Allport and Chang et al. before him at the time the invention was made, to modify the button sensing and preview activation interface taught by Allport to include the strain gauge of Chang et al., in order to obtain an apparatus capable of sensing user input. One would have been motivated to make such a combination because an apparatus for distinguishing inputs using different levels of strain on one button would have been obtained, as taught by Chang et al.

While Allport teaches such a system with button sensing and preview activation interface, they fail to show the use of audio displays as in Claim 6. In the same field of the invention, Chang et al. teaches an activation interface similar to that of Allport.

Chang et al. further teaches the use of audio displays (Fig. 2, ref. 21 and corresponding text). It would have been obvious to one of ordinary skill in the art, having the teachings

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of Allport and Chang et al. before him at the time the invention was made, to modify the button sensing and preview activation interface taught by Allport to include the audio display of Chang et al., in order to obtain a control for activating audio output indicating a preview of what activation would result. One would have been motivated to make such a combination because a distinguishable response for audio systems or a response for visually impaired users would have been obtained, as taught by Chang et al.

While Allport teaches such a system with button sensing and preview activation interface, they fail to show the use of haptic displays as in Claim 7. In the same field of the invention, Chang et al. teaches an activation interface similar to that of Allport.

Chang et al. further teaches the use of haptic displays (Fig. 2, ref. 34 and corresponding text). It would have been obvious to one of ordinary skill in the art, having the teachings of Allport and Chang et al. before him at the time the invention was made, to modify the button sensing and preview activation interface taught by Allport to include the haptic display of Chang et al., in order to obtain a control for activating haptic output indicating a preview of what activation would result. One would have been motivated to make such a combination because a tangible preview system would have been obtained, as taught by Chang et al.

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Response to Amendment

7. Applicant's arguments with respect to the amended claims have been fully considered but they are not persuasive.

With respect to the argument that the reference has failed to teach the limitation that "... preview sensing means for sensing an input to the pushbutton that does not produce an activation of the pushbutton, but determines the nature of the input and preview display functionality of the pushbutton..." is not taught, the examiner feels that this is taught by the reference because there are various distinct movements of the button 15 that are sensed by the system to trigger a response including a preview display functionality of what the pushbutton will do when activated.

With respect to the argument that the reference has failed to teach the "...preview display means for displaying, in response to the sensed input, a preview indicating the effect of activating the pushbutton, wherein the preview varies based on a characteristic of the input to the pushbutton." the examiner points out that this is clearly taught by the preview and activation inputs and corresponding displays as disclosed *supra*.

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Conclusion

8. The prior art made of record on form PTO-892 and not relied upon is considered pertinent to applicant's disclosure. Applicant is required under 37 C.F.R. § 1.111(c) to consider these references fully when responding to this action. The documents cited therein teach similar input sensing apparatus and activation responsive inputs and methods.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sara M Hanne whose telephone number is (703) 305-0703. The examiner can normally be reached on M-F 7:30am-4:00pm, off on alternating Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Heather R Herndon can be reached on (703) 308-5186. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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